

1 528 Rec'd PCT/PTO 08 NOV 2000  
Sequence identity list

SEQUENCE LISTING

COMMON FOR ALL SEQUENCES.

SEQUENCE TYPE: Peptide

SEQUENCE UNIT: Amino Acid

TOPOLOGY: Linear

SEQUENCE ID NO: 1

SEQUENCE LENGTH: 18 amino acids

R H P S W P W T R C L R M R P P R S  
1 5 10 15

SEQUENCE ID NO: 2

SEQUENCE LENGTH: 31 amino acids

G T R A G P G P G A S G C V H Q E A E R V S Q A H R G R T G  
1 5 10 15 20 25 30  
Q

SEQUENCE ID NO: 3

SEQUENCE LENGTH: 32 amino acids

G G T R A G P G P G A S G C V H Q E A E R V S Q A H R G R T  
1 5 10 15 20 25 30  
G Q

SEQUENCE ID NO: 4

SEQUENCE LENGTH: 19 amino acids

G R H P S W P W T R C L R M R P P R S  
1 5 10 15

SEQUENCE ID NO: 5

2

SEQUENCE LENGTH: 28 amino acids

I Q D R A G R M G G R H P S W P W T R C L R M R P P R S  
1 5 10 15 20 25

SEQUENCE ID NO: 6

SEQUENCE LENGTH: 19 amino acids

I Q D R A G R M G G G R H P S W P W T  
1 5 10 15

SEQUENCE ID NO: 7

SEQUENCE LENGTH: 42 amino acids

I Q D R A G R M G G G G T R A G P G P G A S G C V H Q E A E  
1 5 10 15 20 25 30  
R V S Q A H R G R T G Q  
35 40

SEQUENCE ID NO: 8

SEQUENCE LENGTH: 19 amino acids

I Q D R A G R M G G G G T R A G P G P G  
1 5 10 15

SEQUENCE ID NO: 9

SEQUENCE LENGTH: 22 amino acids

I Q D R A G R M G G R H P S W P W T R C L R  
1 5 10 15 20

SEQUENCE ID NO: 10

SEQUENCE LENGTH: 22 amino acids

A S G C V H Q E A E R V S Q A H R G R T G Q  
1 5 10 15 20

SEQUENCE ID NO: 11

SEQUENCE LENGTH: 22 amino acids

G G T R A G P G P G A S G C V H Q E A E R V  
1 5 10 15 20

SEQUENCE ID NO: 12

SEQUENCE LENGTH: 22 amino acids

I Q D R A G R M G G G G T R A G P G P G A S  
1 5 10 15 20

SEQUENCE ID NO: 13

SEQUENCE LENGTH: 34 amino acids

S L V R L S S C V P V A L M S A M T T S S S Q K N I T P A I  
1 5 10 15 20 25 30  
L T C C

SEQUENCE ID NO: 14

SEQUENCE LENGTH: 44 amino acids

S P K C I M K E K K S L V R L S S C V P V A L M S A M T T S  
1 5 10 15 20 25 30  
S S Q K N I T P A I L T C C  
35 40

SEQUENCE ID NO: 15

SEQUENCE LENGTH: 19 amino acids

P K C I M K E K K K S L V R L S S C V  
1 5 10 15

SEQUENCE ID NO: 16

SEQUENCE LENGTH: 23 amino acids

A L M S A M T T S S S Q K N I T P A I L T C C  
1 5 10 15 20

SEQUENCE ID NO: 17

SEQUENCE LENGTH: 23 amino acids

S L V R L S S C V P V A L M S A M T T S S S Q  
1 5 10 15 20

SEQUENCE ID NO: 18

4

SEQUENCE LENGTH: 22 amino acids

S P K C I M K E K K S L V R L S S C V P V A  
1 5 10 15 20

SEQUENCE ID NO: 19

SEQUENCE LENGTH: 12 amino acids

S P K C I M K E K K A W  
1 5 10

SEQUENCE ID NO: 20

SEQUENCE LENGTH: 12 amino acids

P K C I M K E K K A W  
1 5 10

SEQUENCE ID NO: 21

SEQUENCE LENGTH: 19 amino acids

A M T T S S S Q K N I T P A I L T C C  
1 5 10 15

SEQUENCE ID NO: 22

SEQUENCE LENGTH: 9 amino acids

T V G R P H I S C  
1 5

SEQUENCE ID NO: 23

SEQUENCE LENGTH: 10 amino acids

K T V G R P H I S C  
1 5 10

SEQUENCE ID NO: 24

SEQUENCE LENGTH: 18 amino acids

K Q W E D P T S P A N V I A L L Q T  
1 5 10 15

SEQUENCE ID NO: 25

SEQUENCE LENGTH: 17 amino acids

Q W E D P T S P A N V I A L L Q T  
1 5 10 15

SEQUENCE ID NO: 26

SEQUENCE LENGTH: 19 amino acids

Q K T I K S T R K K T V G R P H I S C  
1 5 10 15

SEQUENCE ID NO: 27

SEQUENCE LENGTH: 20 amino acids

Q K T I K S T R K K K T V G R P H I S C  
1 5 10 15 20

SEQUENCE ID NO: 28

SEQUENCE LENGTH: 28 amino acids

Q K T I K S T R K K K Q W E D P T S P A N V I A L L Q T  
1 5 10 15 20 25

SEQUENCE ID NO: 29

SEQUENCE LENGTH: 27 amino acids

Q K T I K S T R K K Q W E D P T S P A N V I A L L Q T  
1 5 10 15 20 25

SEQUENCE ID NO: 30

SEQUENCE LENGTH: 34 amino acids

A A D L Q Q Q F V H F L D C W D V S S I P F T L H L P Q A Q  
1 5 10 15 20 25 30  
D I T T

SEQUENCE ID NO: 31

SEQUENCE LENGTH: 9 amino acids

G K D A K E K S S  
1 5

SEQUENCE ID NO: 32

SEQUENCE LENGTH: 10 amino acids

G K D A K E K K S S  
1 5 10

SEQUENCE ID NO: 33

SEQUENCE LENGTH: 42 amino acids

G K D A K E K K A A D L Q Q Q F V H F L D C W D V S S I P F  
1 5 10 15 20 25 30  
T L H L P Q A Q D I T T  
35 40

SEQUENCE ID NO: 34

SEQUENCE LENGTH: 41 amino acids

G K D A K E K A A D L Q Q Q F V H F L D C W D V S S I P F T  
1 5 10 15 20 25 30  
L H L P Q A Q D I T T  
35 40

SEQUENCE ID NO: 35

SEQUENCE LENGTH: 9 amino acids

F S M K Q T L M N V K N L K T K  
1 5 10 15

SEQUENCE ID NO: 36

SEQUENCE LENGTH: 17 amino acids

K F S M K Q T L M N V K N L K T K  
1 5 10 15

SEQUENCE ID NO: 37

SEQUENCE LENGTH: 25 amino acids

V R T S K T R K K F S M K Q T L M N V K N L K T K  
1 5 10 15 20 25

SEQUENCE ID NO: 38

SEQUENCE LENGTH: 26 amino acids

V R T S K T R K K K F S M K Q T L M N V K N L K T K  
1 5 10 15 20 25

SEQUENCE ID NO: 39

SEQUENCE LENGTH: 12 amino acids

V R T S K T R K K N F P  
1 5 10

SEQUENCE ID NO: 40

SEQUENCE LENGTH: 11 amino acids

V R T S K T R K N F P  
1 5 10

SEQUENCE ID NO: 41

SEQUENCE LENGTH: 10 amino acids

I K K K L L Q F Q K  
1 5 10

SEQUENCE ID NO: 42

SEQUENCE LENGTH: 11 amino acids

K I K K K L L Q F Q K  
1 5 10

SEQUENCE ID NO: 43

SEQUENCE LENGTH: 17 amino acids

K S R R N Y F N F K N N C Q S R L  
1 5 10 15

SEQUENCE ID NO: 44

SEQUENCE LENGTH: 16 amino acids

S R R N Y F N F K N N C Q S R L  
1 5 10 15

SEQUENCE ID NO: 45

SEQUENCE LENGTH: 18 amino acids

T N L R V I Q K I K K K L L Q F Q K  
1 5 10 15

SEQUENCE ID NO: 46

SEQUENCE LENGTH: 19 amino acids

T N L R V I Q K K I K K K L L Q F Q K  
1 5 10 15

SEQUENCE ID NO: 47

SEQUENCE LENGTH: 25 amino acids

T N L R V I Q K K S R R N Y F N F K N N C Q S R L  
1 5 10 15 20 25

SEQUENCE ID NO: 48

SEQUENCE LENGTH: 24 amino acids

T N L R V I Q K S R R N Y F N F K N N C Q S R L  
1 5 10 15 20

SEQUENCE ID NO: 49

SEQUENCE LENGTH: 5 amino acids

K I M I T

1 5

SEQUENCE ID NO: 50

SEQUENCE LENGTH: 12 amino acids

N I D K I P E K I M I T  
1 5 10

SEQUENCE ID NO: 51

SEQUENCE LENGTH: 13 amino acids

N I D K I P E K K I M I T  
1 5 10

SEQUENCE ID NO: 52

SEQUENCE LENGTH: 5 amino acids

I I N A N

1 5

SEQUENCE ID NO: 53

SEQUENCE LENGTH: 6 amino acids

K I I N A N

1 5

SEQUENCE ID NO: 54

SEQUENCE LENGTH: 13 amino acids

N D K T V S E K I I N A N

1 5 10

SEQUENCE ID NO: 55

SEQUENCE LENGTH: 14 amino acids

N D K T V S E K K I I N A N

1 5 10

SEQUENCE ID NO: 56

SEQUENCE LENGTH: 14 amino acids

N G L E K E Y L M V N Q K E

1 5 10

SEQUENCE ID NO: 57

SEQUENCE LENGTH: 23 amino acids

S Q T S L L E A K N G L E K E Y L M V N Q K E

1 5 10 15 20

SEQUENCE ID NO: 58

SEQUENCE LENGTH: 24 amino acids

S Q T S L L E A K K N G L E K E Y L M V N Q K E

1 5 10 15 20

10

SEQUENCE ID NO: 59

SEQUENCE LENGTH: 12 amino acids

S Q T S L L E A K K M A

1 5 10

SEQUENCE ID NO: 60

SEQUENCE LENGTH: 11 amino acids

S Q T S L L E A K M A

1 5 10

SEQUENCE ID NO: 61

SEQUENCE LENGTH: 6 amino acids

T L V F P K

1 5

SEQUENCE ID NO: 62

SEQUENCE LENGTH: 7 amino acids

K T L V F P K

1 5

SEQUENCE ID NO: 63

SEQUENCE LENGTH: 14 amino acids

L K N V E D Q K T L V F P K

1 5 10

SEQUENCE ID NO: 64

SEQUENCE LENGTH: 15 amino acids

L K N V E D Q K K T L V F P K

1 5 10 15

SEQUENCE ID NO: 65

SEQUENCE LENGTH: 10 amino acids

L K N V E D Q K K H

1 5 10

SEQUENCE ID NO: 66

SEQUENCE LENGTH: 9 amino acids

L K N V E D Q K H

1 5

SEQUENCE ID NO: 67

SEQUENCE LENGTH: 6 amino acids

K K I Q L Y

1 5

SEQUENCE ID NO: 68

SEQUENCE LENGTH: 7 amino acids

K K K I Q L Y

1 5

SEQUENCE ID NO: 69

SEQUENCE LENGTH: 36 amino acids

R K R F S Y T E Y L A S I I R F I F S V N R R K E I Q N L S

1 5 10 15 20 25 30

S C N F K I

35

SEQUENCE ID NO: 70

SEQUENCE LENGTH: 15 amino acids

L R I V S Y S K K K K I Q L Y

1 5 10 15

SEQUENCE ID NO: 71

SEQUENCE LENGTH: 16 amino acids

L R I V S Y S K K K K K I Q L Y

1 5 10 15

12

**SEQUENCE ID NO: 72**

SEQUENCE LENGTH: 45 amino acids

L	R	I	V	S	Y	S	K	K	R	K	R	F	S	Y	T	E	Y	L	A	S	I	I	R	F	I	F	S	V	N			
1							5							10				15							20					25		30
R	R	K	E	I	Q	N	L	S	S	C	N	F	K	I																		
														35				40													45	

**SEQUENCE ID NO: 73**

SEQUENCE LENGTH: 44 amino acids

L	R	I	V	S	Y	S	K	R	K	R	F	S	Y	T	E	Y	L	A	S	I	I	R	F	I	F	S	V	N	R			
1							5							10			15								20					25		
R	K	E	I	Q	N	L	S	S	C	N	F	K	I																			
														35			40															

**SEQUENCE ID NO: 74**

SEQUENCE LENGTH: 18 amino acids

Q	D	L	P	L	S	S	I	C	Q	T	I	V	T	I	Y	W	Q												
1							5							10			15												

**SEQUENCE ID NO: 75**

SEQUENCE LENGTH: 19 amino acids

K	Q	D	L	P	L	S	S	I	C	Q	T	I	V	T	I	Y	W	Q										
1							5							10			15											

**SEQUENCE ID NO: 76**

SEQUENCE LENGTH: 25 amino acids

N	R	T	C	P	F	R	L	F	V	R	R	M	L	Q	F	T	G	N	K	V	L	D	R	P				
1														5			10		15						20			25

**SEQUENCE ID NO: 77**

SEQUENCE LENGTH: 27 amino acids

G	F	V	V	S	V	V	K	K	Q	D	L	P	L	S	S	I	C	Q	T	I	V	T	I	Y	W	Q					
1														5			10		15										20		25



14

SEQUENCE ID NO: 85

SEQUENCE LENGTH: 18 amino acids

D E T F Y K G K K K Y R K T K N Q N  
1 5 10 15

SEQUENCE ID NO: 86

SEQUENCE LENGTH: 19 amino acids

D E T F Y K G K K N T E R P K I R T N  
1 5 10 15

SEQUENCE ID NO: 87

SEQUENCE LENGTH: 18 amino acids

D E T F Y K G K N T E R P K I R T N  
1 5 10 15

SEQUENCE ID NO: 88

SEQUENCE LENGTH: 28 amino acids

L S I N N Y R F Q M K F Y F R F T S H G S P F T S A N F  
1 5 10 15 20 25

SEQUENCE ID NO: 89

SEQUENCE LENGTH: 29 amino acids

K L S I N N Y R F Q M K F Y F R F T S H G S P F T S A N F  
1 5 10 15 20 25

SEQUENCE ID NO: 90

SEQUENCE LENGTH: 10 amino acids

N S V S T T T G F R  
1 5 10

SEQUENCE ID NO: 91

SEQUENCE LENGTH: 37 amino acids

N I Q L A A T K K L S I N N Y R F Q M K F Y F R F T S H G S  
1 5 10 15 20 25 30  
P F T S A N F

SEQUENCE ID NO: 92

SEQUENCE LENGTH: 38 amino acids

N I Q L A A T K K K L S I N N Y R F Q M K F Y F R F T S H G  
1 5 10 15 20 25 30  
S P F T S A N F  
35

SEQUENCE ID NO: 93

SEQUENCE LENGTH: 19 amino acids

N I Q L A A T K K N S V S T T T G F R  
1 5 10 15

SEQUENCE ID NO: 94

SEQUENCE LENGTH: 18 amino acids

N I Q L A A T K N S V S T T T G F R  
1 5 10 15

SEQUENCE ID NO: 95

SEQUENCE LENGTH: 18 amino acids

M E H V A P G R M S A S P Q S P T Q  
1 5 10 15

SEQUENCE ID NO: 96

SEQUENCE LENGTH: 19 amino acids

K M E H V A P G R M S A S P Q S P T Q  
1 5 10 15

SEQUENCE ID NO: 97

SEQUENCE LENGTH: 59 amino acids

K W S T W L Q A E C Q H L H S P Q R S D K P Q Q A G L D Q Q  
1 5 10 15 20 25 30  
H H C F A L D S S P G P R P V F L Q L L G L M G Q G R H D  
35 40 45 50 55

## SEQUENCE ID NO: 98

SEQUENCE LENGTH: 58 amino acids

W	S	T	W	L	Q	A	E	C	Q	H	L	H	S	P	Q	R	S	D	K	P	Q	Q	A	G	L	D	Q	Q	H
1					5				10				15				20			25				30					
H	C	F	A	L	D	S	S	P	G	P	R	P	V	F	L	Q	L	L	G	L	M	G	Q	G	R	H	D		
									35				40			45			50				55						

## SEQUENCE ID NO: 99

SEQUENCE LENGTH: 26 amino acids

T	F	S	V	W	A	E	K	M	E	H	V	A	P	G	R	M	S	A	S	P	Q	S	P	T	Q	
1					5				10				15				20			25						

## SEQUENCE ID NO: 100

SEQUENCE LENGTH: 27 amino acids

T	F	S	V	W	A	E	K	K	M	E	H	V	A	P	G	R	M	S	A	S	P	Q	S	P	T	Q
1					5				10				15				20			25						

## SEQUENCE ID NO: 101

SEQUENCE LENGTH: 67 amino acids

T	F	S	V	W	A	E	K	K	W	S	T	W	L	Q	A	E	C	Q	H	L	H	S	P	Q	R	S	D	K	P		
1					5				10				15				20			25				30							
Q	Q	A	G	L	D	Q	Q	H	H	C	F	A	L	D	S	S	P	G	P	R	P	V	F	L	Q	L	L	G	L		
									35				40			45			50				55						60		
M	G	Q	G	R	H	D																									

## SEQUENCE ID NO: 102

SEQUENCE LENGTH: 66 amino acids

T	F	S	V	W	A	E	K	W	S	T	W	L	Q	A	E	C	Q	H	L	H	S	P	Q	R	S	D	K	P	Q			
1					5				10				15				20			25				30								
Q	A	G	L	D	Q	Q	H	H	C	F	A	L	D	S	S	P	G	P	R	P	V	F	L	Q	L	L	G	L	M			
									35				40			45			50				55						60			
G	Q	G	R	H	D																											

SEQUENCE ID NO: 103

SEQUENCE LENGTH: 18 amino acids

H K W L K F C L L R L V K E S F H E  
1 5 10 15

SEQUENCE ID NO: 104

SEQUENCE LENGTH: 19 amino acids

K H K W L K F C L L R L V K E S F H E  
1 5 10 15

SEQUENCE ID NO: 105

SEQUENCE LENGTH: 27 amino acids

K G G K A K G K K H K W L K F C L L R L V K E S F H E  
1 5 10 15 20 25

SEQUENCE ID NO: 106

SEQUENCE LENGTH: 28 amino acids

K G G K A K G K K H K W L K F C L L R L V K E S F H E  
1 5 10 15 20 25

SEQUENCE ID NO: 107

SEQUENCE LENGTH: 13 amino acids

K G G K A K G K K N T N G  
1 5 10

SEQUENCE ID NO: 108

SEQUENCE LENGTH: 12 amino acids

K G G K A K G K N T N G  
1 5 10

SEQUENCE ID NO: 109

SEQUENCE LENGTH: 8 amino acids

V N N F F K K L  
1 5

SEQUENCE ID NO: 110

SEQUENCE LENGTH: 9 amino acids

K V N N F F K K L

1 5

SEQUENCE ID NO: 111

SEQUENCE LENGTH: 16 amino acids

L S Q G N V K K V N N F F K K L

1 5 10 15

SEQUENCE ID NO: 112

SEQUENCE LENGTH: 17 amino acids

L S Q G N V K K K V N N F F K K L

1 5 10 15

SEQUENCE ID NO: 113

SEQUENCE LENGTH: 38 amino acids

G E K N D L Q L F V M S D R R Y K I Y W T V I L L N P C G N

1 5 10 15 20 25 30

L H L K T T S L

35

SEQUENCE ID NO: 114

SEQUENCE LENGTH: 39 amino acids

K G E K N D L Q L F V M S D R R Y K I Y W T V I L L N P C G

1 5 10 15 20 25 30

N L H L K T T S L

35

SEQUENCE ID NO: 115

SEQUENCE LENGTH: 10 amino acids

K G K K M I C S Y S

1 5 10

SEQUENCE ID NO: 116

SEQUENCE LENGTH: 9 amino acids

G K K M I C S Y S

1 5

SEQUENCE ID NO: 117

SEQUENCE LENGTH: 46 amino acids

S S K T F E K K G E K N D L Q L F V M S D R R Y K I Y W T V

1 5 10 15 20 25 30

I L L N P C G N L H L K T T S L

35 40 45

SEQUENCE ID NO: 118

SEQUENCE LENGTH: 47 amino acids

S S K T F E K K K G E K N D L Q L F V M S D R R Y K I Y W T

1 5 10 15 20 25 30

V I L L N P C G N L H L K T T S L

35 30 45

SEQUENCE ID NO: 119

SEQUENCE LENGTH: 18 amino acids

S S K T F E K K K G K K M I C S Y S

1 5 10 15

SEQUENCE ID NO: 120

SEQUENCE LENGTH: 17 amino acids

S S K T F E K K G K K M I C S Y S

1 5 10 15

SEQUENCE ID NO: 121

SEQUENCE LENGTH: 17 amino acids

Q R K P K R A N C V I Q R R A K M

1 5 10 15

20

**SEQUENCE ID NO: 122**

SEQUENCE LENGTH: 18 amino acids

K Q R K P K R A N C V I Q R R A K M  
1 5 10 15

**SEQUENCE ID NO: 123**

SEQUENCE LENGTH: 26 amino acids

N K E N Q K E Q T A L L Y R G G Q R C R C V C L R F  
1 5 10 15 20 25

**SEQUENCE ID NO: 124**

SEQUENCE LENGTH: 26 amino acids

P D Y Q P P A K K Q R K P K R A N C V I Q R R A K M  
1 5 10 15 20 25

**SEQUENCE ID NO: 125**

SEQUENCE LENGTH: 27 amino acids

P D Y Q P P A K K K Q R K P K R A N C V I Q R R A K M  
1 5 10 15 20 25

**SEQUENCE ID NO: 126**

SEQUENCE LENGTH: 35 amino acids

P D Y Q P P A K K N K E N Q K E Q T A L L Y R G G Q R C R C  
1 5 10 15 20 25 30  
V C L R F  
35

**SEQUENCE ID NO: 127**

SEQUENCE LENGTH: 34 amino acids

P D Y Q P P A K N K E N Q K E Q T A L L Y R G G Q R C R C V  
1 5 10 15 20 25 30  
C L R F

SEQUENCE ID NO: 128

SEQUENCE LENGTH: 7 amino acids  
N L S S L L I

1 5

SEQUENCE ID NO: 129

SEQUENCE LENGTH: 5 amino acids  
T C L P F

1 5

SEQUENCE ID NO: 130

SEQUENCE LENGTH: 15 amino acids  
Q P T F T L R K N L S S L L I

1 5 10 15

SEQUENCE ID NO: 131

SEQUENCE LENGTH: 16 amino acids  
Q P T F T L R K K N L S S L L I

1 5 10 15

SEQUENCE ID NO: 132

SEQUENCE LENGTH: 14 amino acids  
Q P T F T L R K K T C L P F

1 5 10

SEQUENCE ID NO: 133

SEQUENCE LENGTH: 13 amino acids  
Q P T F T L R K T C L P F

1 5 10

SEQUENCE ID NO: 134

SEQUENCE LENGTH: 31 amino acids  
R A T F L L S L W E C S L P Q A R L C L I V S R T G L L V Q

1 5 10 15 20 25 30  
S

SEQUENCE ID NO: 135

SEQUENCE LENGTH: 19 amino acids

G Q H F Y W H C G S A A C H R R G C V  
1 5 10 15

SEQUENCE ID NO: 136

SEQUENCE LENGTH: 39 amino acids

K E N V R D K K R A T F L L S L W E C S L P Q A R L C L I V  
1 5 10 15 20 25 30  
S R T G L L V Q S  
35

SEQUENCE ID NO: 137

SEQUENCE LENGTH: 40 amino acids

K E N V R D K K K R A T F L L S L W E C S L P Q A R L C L I  
1 5 10 15 20 25 30  
V S R T G L L V Q S  
35 40

SEQUENCE ID NO: 138

SEQUENCE LENGTH: 28 amino acids

K E N V R D K K K G Q H F Y W H C G S A A C H R R G C V  
1 5 10 15 20 25

SEQUENCE ID NO: 139

SEQUENCE LENGTH: 27 amino acids

K E N V R D K K G Q H F Y W H C G S A A C H R R G C V  
1 5 10 15 20 25

SEQUENCE ID NO: 140

SEQUENCE LENGTH: 39 amino acids

I T H T R W G I T T W D S W S V R M K A N W I Q A Q Q N K S  
1 5 10 15 20 25 30  
L I L S P S F T K

SEQUENCE ID NO: 141

SEQUENCE LENGTH: 40 amino acids

SEQUENCE ID NO: 142

SEQUENCE LENGTH: 16 amino acids

K L L T P G G E L P H G I L G Q  
1 5 10 15

SEQUENCE ID NO: 143

SEQUENCE LENGTH: 15 amino acids

L L T P G G E L P H G I L G Q  
1 5 10 1

SEQUENCE ID NO: 144

SEQUENCE LENGTH: 47 amino acids

SEQUENCE ID NO: 145

SEQUENCE LENGTH: 48 amino acids

**SEQUENCE ID NO: 146**

SEQUENCE LENGTH: 24 amino acids

P P V C E L E K K L L T P G G E L P H G I L G Q  
1 5 10 15 20

SEQUENCE ID NO: 147

SEQUENCE LENGTH: 23 amino acids

P P V C E L E K L L T P G G E L P H G I L G Q  
1 5 10 15 20

SEQUENCE ID NO: 148

SEQUENCE LENGTH: 11 amino acids

S L K D E L E K M K I  
1 5 10

SEQUENCE ID NO: 149

SEQUENCE LENGTH: 12 amino acids

S L K D E L E K K M K I  
1 5 10

SEQUENCE ID NO: 150

SEQUENCE LENGTH: 12 amino acids

L G Q S S P E K K N K N  
1 5 10

SEQUENCE ID NO: 151

SEQUENCE LENGTH: 11 amino acids

L G Q S S P E K N K N  
1 5 10

SEQUENCE ID NO: 152

SEQUENCE LENGTH: 23 amino acids

R L R R I N G R G S Q I R S R N A F N R S E E  
1 5 10 15 20

SEQUENCE ID NO: 153

SEQUENCE LENGTH: 10 amino acids

E P K V K E E K K T  
1 5 10

SEQUENCE ID NO: 154

SEQUENCE LENGTH: 11 amino acids

E P K V K E E K K K T

1 5 10

SEQUENCE ID NO: 155

SEQUENCE LENGTH: 32 amino acids

E P K V K E E K K R L R R I N G R G S Q I R S R N A F N R S

1 5 10 15 20 25 30

E E

SEQUENCE ID NO: 156

SEQUENCE LENGTH: 31 amino acids

E P K V K E E K R L R R I N G R G S Q I R S R N A F N R S E

1 5 10 15 20 25 30

E

SEQUENCE ID NO: 157

SEQUENCE LENGTH: 14 amino acids

T F R Y K G K Q H P F F S T

1 5 10

SEQUENCE ID NO: 158

SEQUENCE LENGTH: 10 amino acids

G P N A P E E K N H

1 5 10

SEQUENCE ID NO: 159

SEQUENCE LENGTH: 11 amino acids

G P N A P E E K K N H

1 5 10

SEQUENCE ID NO: 160

SEQUENCE LENGTH: 23 amino acids

G P N A P E E K K T F R Y K G K Q H P F F S T

1 5 10 15 20

SEQUENCE ID NO: 161

SEQUENCE LENGTH: 22 amino acids

G P N A P E E K T F R Y K G K Q H P F F S T  
1 5 10 15 20

SEQUENCE ID NO: 162

SEQUENCE LENGTH: 6 amino acids

M Q N T C V  
1 5

SEQUENCE ID NO: 163

SEQUENCE LENGTH: 7 amino acids

K M Q N T C V  
1 5

SEQUENCE ID NO: 164

SEQUENCE LENGTH: 9 amino acids

K C K I R V F S K  
1 5

SEQUENCE ID NO: 165

SEQUENCE LENGTH: 8 amino acids

C K I R V F S K  
1 5

SEQUENCE ID NO: 166

SEQUENCE LENGTH: 14 amino acids

F F K R T V Q K M Q N T C V  
1 5 10

SEQUENCE ID NO: 167

SEQUENCE LENGTH: 15 amino acids

F F K R T V Q K K M Q N T C V  
1 5 10 15

SEQUENCE ID NO: 168

SEQUENCE LENGTH: 17 amino acids

F F K R T V Q K K C K I R V F S K  
1 5 10 15

SEQUENCE ID NO: 169

SEQUENCE LENGTH: 16 amino acids

F F K R T V Q K C K I R V F S K  
1 5 10 15

SEQUENCE ID NO: 170

SEQUENCE LENGTH: 7 amino acids

L P H Y L A H  
1 5

SEQUENCE ID NO: 171

SEQUENCE LENGTH: 8 amino acids

C L I T W L T N  
1 5

SEQUENCE ID NO: 172

SEQUENCE LENGTH: 17 amino acids

G S T T G L S A T P L P H Y L A H  
1 5 10 15

SEQUENCE ID NO: 173

SEQUENCE LENGTH: 118 amino acids

G S T T G L S A T P P L P H Y L A H  
1 5 10 15

SEQUENCE ID NO: 174

SEQUENCE LENGTH: 19 amino acids

G S T T G L S A T P P C L I T W L T N  
1 5 10 15

SEQUENCE ID NO: 175

SEQUENCE LENGTH: 18 amino acids

G S T T G L S A T P C L I T W L T N

1 5 10 15

SEQUENCE ID NO: 176

SEQUENCE LENGTH: 9 amino acids

R F A D K P R P N

1 5

SEQUENCE ID NO: 177

SEQUENCE LENGTH: 20 amino acids

D L P T S P D Q T R S G P V H V S V E P

1 5 10 15 20

SEQUENCE ID NO: 178

SEQUENCE LENGTH: 19 amino acids

D S A A G C S G T P R F A D K P R P N

1 5 10 15

SEQUENCE ID NO: 179

SEQUENCE LENGTH: 20 amino acids

D S A A G C S G T P P R F A D K P R P N

1 5 10 15 20

SEQUENCE ID NO: 180

SEQUENCE LENGTH: 31 amino acids

D S A A G C S G T P P D L P T S P D Q T R S G P V H V S V E

1 5 10 15 20 25 30

P

SEQUENCE ID NO: 181

SEQUENCE LENGTH: 30 amino acids

D S A A G C S G T P D L P T S P D Q T R S G P V H V S V E P

1 5 10 15 20 25 30

SEQUENCE ID NO: 182

SEQUENCE LENGTH: 53 amino acids

A	H	P	E	T	P	A	Q	N	R	L	R	I	P	C	S	R	R	E	V	R	S	R	A	C	K	P	P	G	A	
1	5				10		15			20			25																	30
Q	G	S	D	E	R	R	G	K	A	S	P	G	R	D	C	D	V	R	T	G	R	P								
					35		40			45			50																	

SEQUENCE ID NO: 183

SEQUENCE LENGTH: 54 amino acids

P	A	H	P	E	T	P	A	Q	N	R	L	R	I	P	C	S	R	R	E	V	R	S	R	A	C	K	P	P	G
1	5				10		15			20			25																30
A	Q	G	S	D	E	R	R	G	K	A	S	P	G	R	D	C	D	V	R	T	G	R	P						
					35		40			45			50																

SEQUENCE ID NO: 184

SEQUENCE LENGTH: 20 amino acids

R	P	T	R	R	H	P	R	R	I	A	S	G	S	P	A	V	G	G	R	
1	5		10		15		20													

SEQUENCE ID NO: 185

SEQUENCE LENGTH: 63 amino acids

V	A	I	R	G	H	P	R	P	P	A	H	P	E	T	P	A	Q	N	R	L	R	I	P	C	S	R	R	E	
1	5		10		15		20			25			30																
R	S	R	A	C	K	P	P	G	A	Q	G	S	D	E	R	R	G	K	A	S	P	G	R	D	C	D	V	R	
					35		40			45			50																60

G R P

SEQUENCE ID NO: 186

SEQUENCE LENGTH: 64 amino acids

V	A	I	R	G	H	P	R	P	P	A	H	P	E	T	P	A	Q	N	R	L	R	I	P	C	S	R	R	E	
1	5		10		15		20			25			30																
V	R	S	R	A	C	K	P	P	G	A	Q	G	S	D	E	R	R	G	K	A	S	P	G	R	D	C	D	V	R
					35		40			45			50																60

T G R P

SEQUENCE ID NO: 187

SEQUENCE LENGTH: 30 amino acids

V A I R G H P R P P R P T R R H P R R I A S G S P A V G G R  
1 5 10 15 20 25 30

SEQUENCE ID NO: 188

SEQUENCE LENGTH: 29 amino acids

V A I R G H P R P R P T R R H P R R I A S G S P A V G G R  
1 5 10 15 20 25

SEQUENCE ID NO: 189

SEQUENCE LENGTH: 85 amino acids

R G R T S G R S L S C C R R P R C R P A V A S R S T A P S P  
1 5 10 15 20 25 30  
R A G S R R C C L R T S C G A A R P R R T R S A C G D W V A  
35 40 45 50 55 60  
S P P T R S S S R T A C G A A S P P A R S W S A P  
65 70 75 80 85

SEQUENCE ID NO: 190

SEQUENCE LENGTH: 8 amino acids

G G G H L E E V  
1 5

SEQUENCE ID NO: 191

SEQUENCE LENGTH: 94 amino acids

Y F G G P D S T P R G R T S G R S L S C C R R P R C R P A V  
1 5 10 15 20 25 30  
A S R S T A P S P R A G S R R C C L R T S C G A A R P R R T  
35 40 45 50 55 60  
R S A C G D W V A S P P T R S S S R T A C G A A S P P A R S  
65 70 75 80 85 90  
W S A P

SEQUENCE ID NO: 192

SEQUENCE LENGTH: 95 amino acids

Y F G G P D S T P P R G R T S G R S L S C C R R P R C R P A  
1 5 10 15 20 25 30  
V A S R S T A P S P R A G S R R C C L R T S C G A A R P R R  
35 40 45 50 55 60  
T R S A C G D W V A S P P T R S S S R T A C G A A S P P A R  
65 70 75 80 85 90  
S W S A P  
95

SEQUENCE ID NO: 193

SEQUENCE LENGTH: 18 amino acids

Y F G G P D S T P P G G G H L E E V  
1 5 10 15

SEQUENCE ID NO: 194

SEQUENCE LENGTH: 17 amino acids

Y F G G P D S T P G G G H L E E V  
1 5 10 15

SEQUENCE ID NO: 195

SEQUENCE LENGTH: 6 amino acids

H R V A D P  
1 5

SEQUENCE ID NO: 196

SEQUENCE LENGTH: 13 amino acids

L S Q S S E L D P P S S R  
1 5 10

SEQUENCE ID NO: 197

SEQUENCE LENGTH: 14 amino acids

L S Q S S E L D P P P S S R  
1 5 10

SEQUENCE ID NO: 198

SEQUENCE LENGTH: 16 amino acids

L S Q S S E L D P P H R V A D P  
1 5 10 15

SEQUENCE ID NO: 199

SEQUENCE LENGTH: 15 amino acids

L S Q S S E L D P H R V A D P  
1 5 10 15

SEQUENCE ID NO: 200

SEQUENCE LENGTH: 11 amino acids

V I L L P E D T P P S  
1 5 10

SEQUENCE ID NO: 201

SEQUENCE LENGTH: 12 amino acids

V I L L P E D T P P P S  
1 5 10

SEQUENCE ID NO: 202

SEQUENCE LENGTH: 14 amino acids

V I L L P E D T P P L L R A  
1 5 10

SEQUENCE ID NO: 203

SEQUENCE LENGTH: 13 amino acids

V I L L P E L D P L L R A  
1 5 10

SEQUENCE ID NO: 204

SEQUENCE LENGTH: 5 amino acids

P S P L P  
1 5

SEQUENCE ID NO: 205

SEQUENCE LENGTH: 25 amino acids

P L L F H R P C S P S P A L G A T V L A V Y R Y E  
1 5 10 15 20 25

SEQUENCE ID NO: 206

SEQUENCE LENGTH: 24 amino acids

L L F H R P C S P S P A L G A T V L A V Y R Y E  
1 5 10 15 20

SEQUENCE ID NO: 207

SEQUENCE LENGTH: 13 amino acids

A P R P P L G P P P S P L P  
1 5 10

SEQUENCE ID NO: 208

SEQUENCE LENGTH: 14 amino acids

A P R P P L G P P P S P L P  
1 5 10

SEQUENCE ID NO: 209

SEQUENCE LENGTH: 34 amino acids

A P R P P L G P P P L L F H R P C S P S P A L G A T V L A V  
1 5 10 15 20 25 30  
Y R Y E

SEQUENCE ID NO: 210

SEQUENCE LENGTH: 33 amino acids

A P R P P L G P P P L L F H R P C S P S P A L G A T V L A V Y  
1 5 10 15 20 25 30  
R Y E

SEQUENCE ID NO: 211

SEQUENCE LENGTH: 28 amino acids

T Q V L P Q G C S L S L L H T T F P H R Q V P H I L D W  
1 5 10 15 20 25

SEQUENCE ID NO: 212

SEQUENCE LENGTH: 29 amino acids

P T Q V L P Q G C S L S L L H T T F P H R Q V P H I L D W  
1 5 10 15 20 25

SEQUENCE ID NO: 213

SEQUENCE LENGTH: 54 amino acids

P L Q S F P K D A A S A F S T P R F P T D K F P T S W T G S  
1 5 10 15 20 25 30  
C P G Q P H G T R A F C Q P G P E F N A F S A C  
35 40 45 50

SEQUENCE ID NO: 214

SEQUENCE LENGTH: 53 amino acids

L Q S F P K D A A S A F S T P R F P T D K F P T S W T G S C  
1 5 10 15 20 25 30  
P G Q P H G T R A F C Q P G P E F N A F S A C  
35 40 45 50

SEQUENCE ID NO: 215

SEQUENCE LENGTH: 38 amino acids

P S P R P Q S Q P P T Q V L P Q G C S L S L L H T T F P H R  
1 5 10 15 20 25 30  
Q V P H I L D W  
35

SEQUENCE ID NO: 216

SEQUENCE LENGTH: 39 amino acids

P S P R P Q S Q P P P T Q V L P Q G C S L S L L H T T F P H  
1 5 10 15 20 25 30  
R Q V P H I L D W  
35

SEQUENCE ID NO: 217

SEQUENCE LENGTH: 64 amino acids

P S P R P Q S Q P P P L Q S F P K D A A S A F S T P R F P T  
1 5 10 15 20 25 30  
D K F P T S W T G S C P G Q P H G T R A F C Q P G P E F N A  
35 40 45 50 55 60  
F S A C

SEQUENCE ID NO: 218

SEQUENCE LENGTH: 63 amino acids

P S P R P Q S Q P P L Q S F P K D A A S A F S T P R F P T D  
1 5 10 15 20 25 30  
K F P T S W T G S C P G Q P H G T R A F C Q P G P E F N A F  
35 40 45 50 55 60  
S A C

SEQUENCE ID NO: 219

SEQUENCE LENGTH: 30 amino acids

T A W P G R R R F T T P E P Y C L C T P L G P W A P R F L W  
1 5 10 15 20 25 30

SEQUENCE ID NO: 220

SEQUENCE LENGTH: 31 amino acids

P T A W P G R R R F T T P E P Y C L C T P L G P W A P R F L W  
1 5 10 15 20 25 30

SEQUENCE ID NO: 221

SEQUENCE LENGTH: 50 amino acids

SEQUENCE ID NO: 222

SEQUENCE LENGTH: 49 amino acids

SEQUENCE ID NO: 223

SEQUENCE LENGTH: 39 amino acids

D L P A V P G P P T A W P G R R R F T T P E P Y C L C T P L  
 1 5 10 15 20 25 30  
 G P W A P R F L W

SEQUENCE ID NO: 224

SEQUENCE LENGTH: 40 amino acids

D L P A V P G P P P T A W P G R R R F T T P E P Y C L C T P  
 1 5 10 15 20 25 30  
 L G P W A P R F L W  
 35 40

SEQUENCE ID NO: 225

SEQUENCE LENGTH: 59 amino acids

SEQUENCE ID NO: 226

SEQUENCE LENGTH: 58 amino acids

D L P A V P G P P R P G P A G G A L L P R S L T A F V P H S  
1 5 10 15 20 25 30  
G H G L P V S S G E P A Y T P I P H D V P H G T P P F C  
35 40 45 50 55

SEQUENCE ID NO: 227

SEQUENCE LENGTH: 8 amino acids

Q W G L S W M S  
1 5

SEQUENCE ID NO: 228

SEQUENCE LENGTH: 14 amino acids

N G D C H G C P E G R Q S L  
1 5 10

SEQUENCE ID NO: 229

SEQUENCE LENGTH: 17 amino acids

F T M D R V L T P Q W G L S W M S  
1 5 10 15

SEQUENCE ID NO: 230

SEQUENCE LENGTH: 18 amino acids

F T M D R V L T P P Q W G L S W M S  
1 5 10 15

SEQUENCE ID NO: 231

SEQUENCE LENGTH: 24 amino acids

F T M D R V L T P P N G D C H G C P E G R Q S L  
1 5 10 15 20

SEQUENCE ID NO: 232

SEQUENCE LENGTH: 23 amino acids

F T M D R V L T P N G D C H G C P E G R Q S L  
1 5 10 15 20

SEQUENCE ID NO: 233

SEQUENCE LENGTH: 115 amino acids

SEQUENCE ID NO: 234

SEQUENCE LENGTH: 116 amino acids

SEQUENCE ID NO: 235

SEQUENCE LENGTH: 23 amino acids

H T I Q H A S V P T A S C I S K L N S Y T E N  
 1 5 10 15 20

SEQUENCE ID NO: 236

SEQUENCE LENGTH: 126 amino acids

P Q V G M R P S N P P H H P A R Q C P H C I M H L Q T Q L I  
1 5 10 15 20 25 30  
H R N L T G P S Q L T S L H R S P Y Q I A A T P W T T D F A  
35 40 45 50 55 60  
A S F F L N P V T P F L L C R R C Q G K D V L C T N A R C L  
65 70 75 80 85 90  
S Q T S P S H H K A L S R T T T Q C M N T T P W L A V R P A  
95 100 105 110 115 120  
K A F P L L  
125

SEQUENCE ID NO: 237

SEQUENCE LENGTH: 127 amino acids

P Q V G M R P S N P P P H H P A R Q C P H C I M H L Q T Q L  
1 5 10 15 20 25 30  
I H R N L T G P S Q L T S L H R S P Y Q I A A T P W T T D F  
35 40 45 50 55 60  
A A S F F L N P V T P F L L C R R C Q G K D V L C T N A R C  
65 70 75 80 85 90  
L S Q T S P S H H K A L S R T T T Q C M N T T P W L A V R P  
95 100 105 110 115 120  
A K A F P L L  
125

SEQUENCE ID NO: 238

SEQUENCE LENGTH: 34 amino acids

P Q V G M R P S N P P H T I Q H A S V P T A S C I S K L N S  
1 5 10 15 20 25 30  
Y T E N

## SEQUENCE ID NO: 239

SEQUENCE LENGTH: 33 amino acids

P Q V G M R P S N P H T I Q H A S V P T A S C I S K L N S Y  
1 5 10 15 20 25 30  
T E N

## SEQUENCE ID NO: 240

SEQUENCE LENGTH: 51 amino acids

W A A R S W C E R R A A A V A P L A P W A W G C P A G C T P  
1 5 10 15 20 25 30  
P V A A R A C A A T R P E G W R S P C T H  
35 40 45 50

## SEQUENCE ID NO: 241

SEQUENCE LENGTH: 52 amino acids

P W A A R S W C E R R A A A V A P L A P W A W G C P A G C T  
1 5 10 15 20 25 30  
P P V A A R A C A A T R P E G W R S P C T H  
35 40 45 50

## SEQUENCE ID NO: 242

SEQUENCE LENGTH: 74 amino acids

R G L R G A G A R G G L R L L R H L R P G L G D A L R G V H  
1 5 10 15 20 25 30  
P P L R L G P A L L P A P R G G E A P A H T D A R A R R V H  
35 40 45 50 55 60  
G A G G D R G H P G P A A L  
65 70

## SEQUENCE ID NO: 243

SEQUENCE LENGTH: 61 amino acids

E E K L A R C R P P W A A R S W C E R R A A A V A P L A P W  
1 5 10 15 20 25 30  
A W G C P A G C T P P V A A R A C A A T R P E G W R S P C T H  
35 40 45 50 55 60

SEQUENCE ID NO: 244

SEQUENCE LENGTH: 62 amino acids

E E K L A R C R P P P W A A R S W C E R R A A A V A P L A P  
1 5 10 15 20 25 30  
W A W G C P A G C T P P V A A R A C A A T R P E G W R S P C T H  
35 40 45 50 55 60

SEQUENCE ID NO: 245

SEQUENCE LENGTH: 84 amino acids

E E K L A R C R P P R G L R G A G A R G G L R L L R H L R P  
1 5 10 15 20 25 30  
G L G D A L R G V H P P L R L G P A L L P A P R G G E A P A  
35 40 45 50 55 60  
H T D A R A R R V H G A G G D R G H P G P A A L  
65 70 75 80

SEQUENCE ID NO: 246

SEQUENCE LENGTH: 83 amino acids

E E K L A R C R P R G L R G A G A R G G L R L L R H L R P G  
1 5 10 15 20 25 30  
L G D A L R G V H P P L R L G P A L L P A P R G G E A P A H  
35 40 45 50 55 60  
T D A R A R R V H G A G G D R G H P G P A A L  
65 70 75 80

SEQUENCE ID NO: 247

SEQUENCE LENGTH: 163 amino acids

Q P P V S P R P R R P G R P R A P P P P P Q P M V S P R R R T  
1 5 10 15 20 25 30  
T G P P W R P P P L Q S T M S P P P Q A L H Q A Q L L L W C  
35 40 45 50 55 60  
T T A P L P G L P Q P Q P A R A L H S Q F P A T T L I L L P  
65 70 75 80 85 90  
P L P A I A P R L M P V A L T I A R Y L L S P P P I T A L L  
95 100 105 110 115 120  
P S C L L G S L S F S C L F T F Q T S S L I P L W K I P A P  
125 130 135 140 145 150  
T T T K S C R E T F L K W  
155 160

SEQUENCE ID NO: 248

SEQUENCE LENGTH: 85 amino acids

S P G C H L G P G D Q A A P G L H R P P S P W C H L G A G Q  
1 5 10 15 20 25 30  
Q A R L G V H R P S S P Q C H L G L R L C I R L S F Y S G A  
35 40 45 50 55 60  
Q R H L C Q G Y H N P S Q Q E H S I L N S Q P P L  
65 70 75 80 85

SEQUENCE ID NO: 249

SEQUENCE LENGTH: 172 amino acids

K P A P G S T A P Q P P V S P R P R R P G R P R A P P P P Q  
1 5 10 15 20 25 30  
P M V S P R R R T T G P P W R P P P L Q S T M S P P P Q A L  
35 40 45 50 55 60  
H Q A Q L L L W C T T A P L P G L P Q P Q P A R A L H S Q F  
65 70 75 80 85 90  
P A T T L I L L P P L P A I A P R L M P V A L T I A R Y L L  
95 100 105 110 115 120  
S P P P I T A L L P S C L L G S L S F S C L F T F Q T S S L  
125 130 135 140 145 150  
I P L W K I P A P T T T K S C R E T F L K W  
155 160 165 170

SEQUENCE ID NO: 250

SEQUENCE LENGTH: 173 amino acids

K P A P G S T A P P Q P P V S P R P R R P G R P R A P P P P  
1 5 10 15 20 25 30  
Q P M V S P R R R T T G P P W R P P P L Q S T M S P P P Q A  
35 40 45 50 55 60  
L H Q A Q L L L W C T T A P L P G L P Q P Q P A R A L H S Q  
65 70 75 80 85 90  
F P A T T L I L L P P L P A I A P R L M P V A L T I A R Y L  
95 100 105 110 115 120  
L S P P P I T A L L P S C L L G S L S F S C L F T F Q T S S  
125 130 135 140 145 150  
L I P L W K I P A P T T T K S C R E T F L K W  
155 160 165 170

SEQUENCE ID NO: 251

SEQUENCE LENGTH: 65 amino acids

K P A P G S T A P P S P G C H L G P G D Q A A P G L H R P P  
1 5 10 15 20 25 30  
S P W C H L G A G Q Q A R L G V H R P S S P Q C H L G L R L  
C I R L S F Y S G A Q R H L C Q G Y H N P S Q Q E H S I L N  
35 40 45 50 55 60  
S Q P P L  
65

SEQUENCE ID NO: 252

SEQUENCE LENGTH: 94 amino acids

K P A P G S T A P S P G C H L G P G D Q A A P G L H R P P S  
1 5 10 15 20 25 30  
P W C H L G A G Q Q A R L G V H R P S S P Q C H L G L R L C  
35 40 45 50 55 60  
I R L S F Y S G A Q R H L C Q G Y H N P S Q Q E H S I L N S  
65 70 75 80 85 90  
Q P P L

SEQUENCE ID NO: 253

SEQUENCE LENGTH: 113 amino acids

Q P M V S P R R R T T G P P W R P P P L Q S T M S P P P Q A  
1 5 10 15 20 25 30  
L H Q A Q L L L W C T T A P L P G L P Q P Q P A R A L H S Q  
35 40 45 50 55 60  
F P A T T L I L L P P L P A I A P R L M P V A L T I A R Y L  
65 70 75 80 85 90  
L S P P P I T A L L P S C L L G S L S F S C L F T F Q T S S  
L I P L W K I P A P T T T K S C R E T F L K W  
95 100 105 110

SEQUENCE ID NO: 254

SEQUENCE LENGTH: 65 amino acids

S P W C H L G A G Q Q A R L G V H R P S S P Q C H L G L R L  
1 5 10 15 20 25 30  
C I R L S F Y S G A Q R H L C Q G Y H N P S Q Q E H S I L N  
35 40 45 50 55 60  
S Q P P L  
65

SEQUENCE ID NO: 255

SEQUENCE LENGTH: 18 amino acids

R P P P G S T A P Q P M V S P R R R  
1 5 10 15

SEQUENCE ID NO: 256

SEQUENCE LENGTH: 19 amino acids

R P P P G S T A P P Q P M V S P R R R  
1 5 10 15

SEQUENCE ID NO: 257

SEQUENCE LENGTH: 18 amino acids

R P P P G S T A P P S P W C H L G A  
1 5 10 15

SEQUENCE ID NO: 258

SEQUENCE LENGTH: 17 amino acids

R P P P G S T A P S P W C H L G A  
1 5 10 15

SEQUENCE ID NO: 259

SEQUENCE LENGTH: 14 amino acids

R P R A P P P P S P W C H L  
1 5 10

SEQUENCE ID NO: 260

SEQUENCE LENGTH: 13 amino acids

R P R A P P P P P S P W C

1 5 10

SEQUENCE ID NO: 261

SEQUENCE LENGTH: 16 amino acids

R P R A P P P P P A H G V T S A P

1 5 10 15

SEQUENCE ID NO: 262

SEQUENCE LENGTH: 13 amino acids

R P R A P P P P P A H G V

1 5 10

SEQUENCE ID NO: 263

SEQUENCE LENGTH: 14 amino acids

A P G L H R P P Q P M V S P

1 5 10

SEQUENCE ID NO: 264

SEQUENCE LENGTH: 15 amino acids

A A P G L H R P Q P M V S P R

1 5 10 15

SEQUENCE ID NO: 265

SEQUENCE LENGTH: 13 amino acids

P G L H R P P P A H G V T

1 5 10

SEQUENCE ID NO: 266

SEQUENCE LENGTH: 14 amino acids

A P G L H R P P A H G V T S

1 5 10

SEQUENCE ID NO: 267

SEQUENCE LENGTH: 21 amino acids

V D R P Q H T E W L S W S N L Y R I R H Q  
1 5 10 15 20

SEQUENCE ID NO: 268

SEQUENCE LENGTH: 10 amino acids

H Y L C T D V A P R  
1 5 10

SEQUENCE ID NO: 269

SEQUENCE LENGTH: 11 amino acids

H Y L C T D V A P P R  
1 5 10

SEQUENCE ID NO: 270

SEQUENCE LENGTH: 31 amino acids

H Y L C T D V A P P V D R P Q H T E W L S W S N L Y R I R H  
1 5 10 15 20 25 30  
Q

SEQUENCE ID NO: 271

SEQUENCE LENGTH: 30 amino acids

H Y L C T D V A P V D R P Q H T E W L S W S N L Y R I R H Q  
1 5 10 15 20 25 30

SEQUENCE ID NO: 272

SEQUENCE LENGTH: 108 amino acids

S A Y L S P L G T T W L R T C A C R L P R P A A S C L C T T  
1 5 10 15 20 25 30  
P S L L W P R R T C P A G S P R A T S S P W R M P A P K S C  
35 40 45 50 55 60  
C T T G L A F T S P I G L G W R S A T A S G Y A R I W P V L  
65 70 75 80 85 90  
S L T C Q S W S T S L P S T A V T W  
95 100 105

SEQUENCE ID NO: 273

SEQUENCE LENGTH: 109 amino acids

P S A Y L S P L G T T W L R T C A C R L P R P A A S C L C T  
1 5 10 15 20 25 30  
T P S L L W P R R T C P A G S P R A T S S P W R M P A P K S  
35 40 45 50 55 60  
C C T T G L A F T S P I G L G W R S A T A S G Y A R I W P V  
65 70 75 80 85 90  
L S L T C Q S W S T S L P S T A V T W  
95 100 105

SEQUENCE ID NO: 274

SEQUENCE LENGTH: 12 amino acids

P A P I F L L W G P L G  
1 5 10

SEQUENCE ID NO: 275

SEQUENCE LENGTH: 11 amino acids

A P I F L L W G P L G  
1 5 10

SEQUENCE ID NO: 276

SEQUENCE LENGTH: 117 amino acids

L P A R A P G P P S A Y L S P L G T T W L R T C A C R L P R  
1 5 10 15 20 25 30  
P A A S C L C T T P S L L W P R R T C P A G S P R A T S S P  
35 40 45 50 55 60  
W R M P A P K S C C T T G L A F T S P I G L G W R S A T A S  
65 70 75 80 85 90  
G Y A R I W P V L S L T C Q S W S T S L P S T A V T W  
95 100 105 110 115

SEQUENCE ID NO: 277

SEQUENCE LENGTH: 118 amino acids

L P A R A P G P P P S A Y L S P L G T T W L R T C A C R L P  
1 5 10 15 20 25 30  
R P A A S C L C T T P S L L W P R R T C P A G S P R A T S S  
35 40 45 50 55 60  
P W R M P A P K S C C T T G L A F T S P I G L G W R S A T A  
65 70 75 80 85 90  
S G Y A R I W P V L S L T C Q S W S T S L P S T A V T W  
95 100 105 110 115

SEQUENCE ID NO: 278

SEQUENCE LENGTH: 21 amino acids

L P A R A P G P P P A P I F L L W G P L G  
1 5 10 15 20

SEQUENCE ID NO: 279

SEQUENCE LENGTH: 20 amino acids

L P A R A P G P P A P I F L L W G P L G  
1 5 10 15 20

SEQUENCE ID NO: 280

SEQUENCE LENGTH: 14 amino acids

D L E H H G G V T R H R H R  
1 5 10

SEQUENCE ID NO: 281

SEQUENCE LENGTH: 11 amino acids

L V S D Y S M T P R P  
1 5 10

SEQUENCE ID NO: 282

SEQUENCE LENGTH: 12 amino acids

L V S D Y S M T P P R P  
1 5 10

SEQUENCE ID NO: 283

SEQUENCE LENGTH: 24 amino acids

L V S D Y S M T P P D L E H H G G V T R H R H R  
1 5 10 15 20

SEQUENCE ID NO: 284

SEQUENCE LENGTH: 23 amino acids

L V S D Y S M T P D L E H H G G V T R H R H R  
1 5 10 15 20

SEQUENCE ID NO: 285

SEQUENCE LENGTH: 51 amino acids

F H H I A T D V G P F V R I G F L K I K G K I K G K S L R K  
1 5 10 15 20 25 30  
P N W K T Q H K L K R A L M F L I V K K L  
35 40 45 50

SEQUENCE ID NO: 286

SEQUENCE LENGTH: 52 amino acids

seq id no 286;

P F H H I A T D V G P F V R I G F L K I K G K I K G K S L R  
1 5 10 15 20 25 30  
K P N W K T Q H K L K R A L M F L I V K K L  
35 40 45 50

SEQUENCE ID NO: 287

SEQUENCE LENGTH: 12 amino acids

P S I T L Q Q M L A P S  
1 5 10

SEQUENCE ID NO: 288

SEQUENCE LENGTH: 11 amino acids

S I T L Q Q M L A P S  
1 5 10

SEQUENCE ID NO: 289

SEQUENCE LENGTH: 60 amino acids

SEQUENCE ID NO: 290

SEQUENCE LENGTH: 61 amino acids

L

SEQUENCE ID NO: 291

SEQUENCE LENGTH: 20 amino acids

T S C N E M N P P S I T L Q Q M L A P S  
1 5 10 15 20

SEQUENCE ID NO: 292

SEQUENCE LENGTH: 21 amino acids

T S C N E M N P P P S I T L Q Q M L A P S  
1 5 10 15 20

**SEQUENCE ID NO: 293**

SEQUENCE LENGTH: 10 amino acids

L E M I L F L M T F  
1 5 10

SEQUENCE ID NO: 294

SEQUENCE LENGTH: 18 amino acids

H P C I T K T F L E M I L F L M T F  
1 5 10 15

SEQUENCE ID NO: 295

SEQUENCE LENGTH: 19 amino acids

H P C I T K T F F L E M I L F L M T F  
1 5 10 15

SEQUENCE ID NO: 296

SEQUENCE LENGTH: 11 amino acids

H P C I T K T F F W R  
1 5 10

SEQUENCE ID NO: 297

SEQUENCE LENGTH: 10 amino acids

H P C I T K T F W R  
1 5 10

SEQUENCE ID NO: 298

SEQUENCE LENGTH: 22 amino acids

L M F E H S Q M R L N S K N A H L P I I S F  
1 5 10 15 20

SEQUENCE ID NO: 299

SEQUENCE LENGTH: 30 amino acids

E Y G S I I A F L M F E H S Q M R L N S K N A H L P I I S F  
1 5 10 15 20 25 30

SEQUENCE ID NO: 300

SEQUENCE LENGTH: 31 amino acids

E Y G S I I A F F L M F E H S Q M R L N S K N A H L P I I S  
1 5 10 15 20 25 30  
F

SEQUENCE ID NO: 301

SEQUENCE LENGTH: 15 amino acids

H L N K G R R L G D K I R A T  
1 5 10 15

SEQUENCE ID NO: 302

SEQUENCE LENGTH: 16 amino acids

F H L N K G R R L G D K I R A T  
1 5 10 15

SEQUENCE ID NO: 303

SEQUENCE LENGTH: 23 amino acids

V T S G T P F F H L N K G R R L G D K I R A T  
1 5 10 15 20

SEQUENCE ID NO: 304

SEQUENCE LENGTH: 24 amino acids

V T S G T P F F H L N K G R R L G D K I R A T  
1 5 10 15 20

SEQUENCE ID NO: 305

SEQUENCE LENGTH: 10 amino acids

V T S G T P F F F I  
1 5 10

SEQUENCE ID NO: 306

SEQUENCE LENGTH: 9 amino acids

V T S G T P F F I  
1 5

SEQUENCE ID NO: 307

SEQUENCE LENGTH: 10 amino acids

C E I E R I H F F F  
1 5 10

SEQUENCE ID NO: 308

SEQUENCE LENGTH: 11 amino acids

C E I E R I H F F S K  
1 5 10

SEQUENCE ID NO: 309

SEQUENCE LENGTH: 10 amino acids

C E I E R I H F S K

1 5 10

SEQUENCE ID NO: 310

SEQUENCE LENGTH: 8 amino acids

F R Y I S K S I

1 5

SEQUENCE ID NO: 311

SEQUENCE LENGTH: 7 amino acids

R Y I S K S I

1 5

SEQUENCE ID NO: 312

SEQUENCE LENGTH: 16 amino acids

F K K Y E P I F F R Y I S K S I

1 5 10 15

SEQUENCE ID NO: 313

SEQUENCE LENGTH: 15 amino acids

F K K Y E P I F R Y I S K S I

1 5 10 15

SEQUENCE ID NO: 314

SEQUENCE LENGTH: 56 amino acids

F P D S D Q P G P L Y P L D P S C L I S S A S N P Q E L S D

1 5 10 15 20 25 30

C H Y I H L A F G F S N W R S C P V L P G H C G V Q

35 40 45 50 55

SEQUENCE ID NO: 315

SEQUENCE LENGTH: 55 amino acids

SEQUENCE ID NO: 316

SEQUENCE LENGTH: 9 amino acids

L N M F A S V F S

15

SEQUENCE ID NO: 317

SEQUENCE LENGTH: 10 amino acids

L N M F A S V F F S

1                    5                    10                    15

SEQUENCE ID NO: 318

SEQUENCE LENGTH: 64 amino acids

SEQUENCE ID NO: 319

SEQUENCE LENGTH: 63 amino acids

SEQUENCE ID NO: 320

SEQUENCE LENGTH: 63 amino acids

SEQUENCE ID NO: 321

SEQUENCE LENGTH: 55 amino acids

SEQUENCE ID NO: 322

SEQUENCE LENGTH: 71 amino acids

Y G G D R S R G A M E E T V V V A V A T V E T E V E A M E E  
 1 5 10 15 20 25 30  
 T G V V A A M E E T E V G A T E E T E V A M E A K W E E E T  
 35 40 45 50 55 60  
 T T E M I S A T D H T  
 65 70

**SEQUENCE ID NO: 323**

SEQUENCE LENGTH: 72 amino acids

SEQUENCE ID NO: 324

SEQUENCE LENGTH: 64 amino acids

Y G G D R S R G G L W V R P W L W E W L R W E P K W R L W R  
1 5 10 15 20 25 30  
R Q E W W R L W R R P R W G L R R R P R W L W R E N G R K K  
35 40 45 50 55 60  
R L Q K

SEQUENCE ID NO: 325

SEQUENCE LENGTH: 63 amino acids

Y G G D R S R G L W V R P W L W E W L R W E P K W R L W R R  
1 5 10 15 20 25 30  
Q E W W R L W R R P R W G L R R R P R W L W R E N G R K K R  
35 40 45 50 55 60  
L Q K

SEQUENCE ID NO: 326

SEQUENCE LENGTH: 9 amino acids

E F G G G R R Q K  
1 5

SEQUENCE ID NO: 327

SEQUENCE LENGTH: 8 amino acids

E F G G R R Q K  
1 5

SEQUENCE ID NO: 328

SEQUENCE LENGTH: 15 amino acids

R R A K G G G A G A S N P R Q  
1 5 10 15

SEQUENCE ID NO: 329

SEQUENCE LENGTH: 16 amino acids

G R R A K G G G A G A S N P R Q  
1 5 10 15

SEQUENCE ID NO: 330

SEQUENCE LENGTH: 21 amino acids

D V G L R E G A L E L P T R G N K R N V A  
1 5 10 15 20

SEQUENCE ID NO: 331

SEQUENCE LENGTH: 24 amino acids

M R G G G G V G G R R A K G G G A G A S N P R Q  
1 5 10 15 20

SEQUENCE ID NO: 332

SEQUENCE LENGTH: 25 amino acids

M R G G G G V G G G R R A K G G G A G A S N P R Q  
1 5 10 15 20 25

SEQUENCE ID NO: 333

SEQUENCE LENGTH: 30 amino acids

M R G G G G V G G D V G L R E G A L E L P T R G N K R N V A  
1 5 10 15 20 25 30

SEQUENCE ID NO: 334

SEQUENCE LENGTH: 29 amino acids

M R G G G G V G D V G L R E G A L E L P T R G N K R N V A  
1 5 10 15 20 25

SEQUENCE ID NO: 335

SEQUENCE LENGTH: 25 amino acids

V W Q L A G P M L A G W R S L G S W F C R M Y G I  
1 5 10 15 20 25

SEQUENCE ID NO: 336

SEQUENCE LENGTH: 46 amino acids

C G S W P A L C W R A G G V W A V G S A G C M E Y D P E A L  
1 5 10 15 20 25 30  
P A A W G P A A A A T V H P R R  
35 40 45

SEQUENCE ID NO: 337

SEQUENCE LENGTH: 33 amino acids

R R Y P C E W G V W Q L A G P M L A G W R S L G S W F C R M  
1 5 10 15 20 25 30  
Y G I

SEQUENCE ID NO: 338

SEQUENCE LENGTH: 34 amino acids

R R Y P C E W G G V W Q L A G P M L A G W R S L G S W F C R  
1 5 10 15 20 25 30  
M Y G I

SEQUENCE ID NO: 339

SEQUENCE LENGTH: 55 amino acids

R R Y P C E W G G C G S W P A L C W R A G G V W A V G S A G  
1 5 10 15 20 25 30  
C M E Y D P E A L P A A W G P A A A A T V H P R R  
35 40 45 50 55

SEQUENCE ID NO: 340

SEQUENCE LENGTH: 54 amino acids

R R Y P C E W G C G S W P A L C W R A G G V W A V G S A G C  
1 5 10 15 20 25 30  
M E Y D P E A L P A A W G P A A A A T V H P R R  
35 40 45 50

SEQUENCE ID NO: 341

SEQUENCE LENGTH: 43 amino acids

L W L W A G W T V W W S C G P G E K G H G W P S L P T M A L  
1 5 10 15 20 25 30  
L L L R F S C M R V A S Y  
35 40

SEQUENCE ID NO: 342

SEQUENCE LENGTH: 44 amino acids

G L W L W A G W T V W W S C G P G E K G H G W P S L P T M A  
1 5 10 15 20 25 30  
L L L L R F S C M R V A S Y  
35 40

SEQUENCE ID NO: 343

SEQUENCE LENGTH: 84 amino acids

G C G C G P A G Q Y G G A V G L A R R G T A G C L P C P P W  
1 5 10 15 20 25 30  
L C C C C A F P A C G L P G T D G W R G W Q G S G C V R V S  
35 40 45 50 55 60  
G S A P W A P G F P F S P P C P L C G T Q P R W  
65 70 75 80

SEQUENCE ID NO: 344

SEQUENCE LENGTH: 83 amino acids

C G C G P A G Q Y G G A V G L A R R G T A G C L P C P P W L  
1 5 10 15 20 25 30  
C C C C C A F P A C G L P G T D G W R G W Q G S G C V R V S G  
35 40 45 50 55 60  
S A P W A P G F P F S P P C P L C G T Q P R W  
65 70 75 80

SEQUENCE ID NO: 345

SEQUENCE LENGTH: 51 amino acids

L A F N V P G G L W L W A G W T V W W S C G P G E K G H G W  
1 5 10 15 20 25 30  
P S L P T M A L L L R F S C M R V A S Y  
35 40 45 50

SEQUENCE ID NO: 346

SEQUENCE LENGTH: 52 amino acids

L A F N V P G G G L W L W A G W T V W W S C G P G E K G H G  
1 5 10 15 20 25 30  
W P S L P T M A L L L L R F S C M R V A S Y  
35 40 45 50

SEQUENCE ID NO: 347

SEQUENCE LENGTH: 92 amino acids

L A F N V P G G G C G C G P A G Q Y G G A V G L A R R G T A  
1 5 10 15 20 25 30  
G C L P C P P W L C C C C A F P A C G L P G T D G W R G W Q  
35 40 45 50 55 60  
G S G C V R V S G S A P W A P G F P F S P P C P L C G T Q P  
65 70 75 80 85 90  
R W

SEQUENCE ID NO: 348

SEQUENCE LENGTH: 91 amino acids

L A F N V P G G G C G C G P A G Q Y G G A V G L A R R G T A G  
1 5 10 15 20 25 30  
C L P C P P W L C C C C A F P A C G L P G T D G W R G W Q G  
35 40 45 50 55 60  
S G C V R V S G S A P W A P G F P F S P P C P L C G T Q P R  
65 70 75 80 85 90

W

SEQUENCE ID NO: 349

SEQUENCE LENGTH: 17 amino acids

P P M P M P G Q R E A P G R Q E A  
1 5 10 15

SEQUENCE ID NO: 350

SEQUENCE LENGTH: 18 amino acids

G P P M P M P G Q R E A P G R Q E A  
1 5 10 15

SEQUENCE ID NO: 351

SEQUENCE LENGTH: 24 amino acids

G H Q C Q C Q G K G R H R A D R R P D T A Q E E  
1 5 10 15 20

SEQUENCE ID NO: 352

SEQUENCE LENGTH: 23 amino acids

H Q C Q C Q G K G R H R A D R R P D T A Q E E  
1 5 10 15 20

SEQUENCE ID NO: 353

SEQUENCE LENGTH: 25 amino acids

G G H S Y G G G P P M P M P G Q R E A P G R Q E A  
1 5 10 15 20 25

SEQUENCE ID NO: 354

SEQUENCE LENGTH: 26 amino acids

G G H S Y G G G G P P M P M P G Q R E A P G R Q E A  
1 5 10 15 20 25

SEQUENCE ID NO: 355

SEQUENCE LENGTH: 32 amino acids

G G H S Y G G G G H Q C Q C Q G K G R H R A D R R P D T A Q  
1 5 10 15 20 25 30  
E E

SEQUENCE ID NO: 356

SEQUENCE LENGTH: 31 amino acids

G G H S Y G G G G H Q C Q C Q G K G R H R A D R R P D T A Q E  
1 5 10 15 20 25 30  
E

SEQUENCE ID NO: 357

SEQUENCE LENGTH: 10 amino acids

A P C P Q S S G G G  
1 5 10

SEQUENCE ID NO: 358

SEQUENCE LENGTH: 17 amino acids

L P A P S Q A A A D E L D R R P G  
1 5 10 15

SEQUENCE ID NO: 359

SEQUENCE LENGTH: 18 amino acids

T K V R L I R G A P C P Q S S G G G  
1 5 10 15

SEQUENCE ID NO: 360

SEQUENCE LENGTH: xx amino acids

TKVRLIRGGAPCPQSSGGG  
1 5 10

SEQUENCE ID NO: 361

SEQUENCE LENGTH: 26 amino acids

T K V R L I R G G L P A P S Q A A A D E L D R R P G  
1 5 10 15 20 25

SEQUENCE ID NO: 362

SEQUENCE LENGTH: 25 amino acids

T K V R L I R G L P A P S Q A A A D E L D R R P G  
1 5 10 15 20 25

SEQUENCE ID NO: 363

SEQUENCE LENGTH: 45 amino acids

C S L A K D G S T E D T V S S L C G E E D T E D E E L E A A  
1 5 10 15 20 25 30  
A S H L N K D L Y R E L L G G  
35 40 45

SEQUENCE ID NO: 364

SEQUENCE LENGTH: 46 amino acids

G C S L A K D G S T E D T V S S L C G E E D T E D E E L E A  
1 5 10 15 20 25 30  
A A S H L N K D L Y R E L L G G  
35 40 45

SEQUENCE ID NO: 365

SEQUENCE LENGTH: 21 amino acids

A A A W Q K M A P P R T P R P A C V A R R  
1 5 10 15 20

SEQUENCE ID NO: 366

SEQUENCE LENGTH: 54 amino acids

E N S R P K R G G C S L A K D G S T E D T V S S L C G E E D  
1 5 10 15 20 25 30  
T E D E E L E A A A S H L N K D L Y R E L L G G  
35 40 45 50

SEQUENCE ID NO: 367

SEQUENCE LENGTH: 55 amino acids

E N S R P K R G G G C S L A K D G S T E D T V S S L C G E E  
1 5 10 15 20 25 30  
D T E D E E L E A A A S H L N K D L Y R E L L G G  
35 40 45 50 55

SEQUENCE ID NO: 368

SEQUENCE LENGTH: 30 amino acids

E N S R P K R G G A A A W Q K M A P P R T P R P A C V A R R  
1 5 10 15 20 25 30

SEQUENCE ID NO: 369

SEQUENCE LENGTH: 29 amino acids

E N S R P K R G A A A W Q K M A P P R T P R P A C V A R R  
1 5 10 15 20 25

65

**SEQUENCE ID NO: 370**

SEQUENCE LENGTH: 10 amino acids

H C V L A A S G A S

1 5 10

**SEQUENCE ID NO: 371**

SEQUENCE LENGTH: 11 amino acids

G H C V L A A S G A S

1 5 10

**SEQUENCE ID NO: 372**

SEQUENCE LENGTH: 28 amino acids

G T A S S R P L G L P K P H L H R P V P I R H P S C P K

1 5 10 15 20 25

**SEQUENCE ID NO: 373**

SEQUENCE LENGTH: 27 amino acids

T A S S R P L G L P K P H L H R P V P I R H P S C P K

1 5 10 15 20 25

**SEQUENCE ID NO: 374**

SEQUENCE LENGTH: 18 amino acids

A G T L Q L G G H C V L A A S G A S

1 5 10 15

**SEQUENCE ID NO: 375**

SEQUENCE LENGTH: 19 amino acids

A G T L Q L G G G H C V L A A S G A S

1 5 10 15

**SEQUENCE ID NO: 376**

SEQUENCE LENGTH: 35 amino acids

A G T L Q L G G T A S S R P L G L P K P H L H R P V P I R H

1 5 10 15 20 25 30

P S C P K

SEQUENCE ID NO: 377

SEQUENCE LENGTH: 36 amino acids

A G T L Q L G G G T A S S R P L G L P K P H L H R P V P I R  
1 5 10 15 20 25 30  
H P S C P K  
35

SEQUENCE ID NO: 378

SEQUENCE LENGTH: 9 amino acids

R R T P S T E K R  
1 5

SEQUENCE ID NO: 379

SEQUENCE LENGTH: 10 amino acids

R R T P S T E K K R  
1 5 10

SEQUENCE ID NO: 380

SEQUENCE LENGTH: 14 amino acids

R R T P S T E K K G R S E C  
1 5 10

SEQUENCE ID NO: 381

SEQUENCE LENGTH: 13 amino acids

R R T P S T E K G R S E C  
1 5 10

SEQUENCE ID NO: 382

SEQUENCE LENGTH: 46 amino acids

S T T K C Q S G T A E T Y N S W K V K N L Q L E P R R V T S  
1 5 10 15 20 25 30  
Q M N R Q V K D M T A I L S Q S  
35 40 45

**SEQUENCE ID NO: 383**

**SEQUENCE LENGTH: 17 amino acids**

V Q P N A S Q A Q Q K P T T H G R  
1 5 10 15

**SEQUENCE ID NO: 384**

**SEQUENCE LENGTH: 54 amino acids**

S S E E I K K K S T T K C Q S G T A E T Y N S W K V K N L Q  
1 5 10 15 20 25 30  
L E P R R V T S Q M N R Q V K D M T A I L S Q S  
35 40 45 50

**SEQUENCE ID NO: 385**

**SEQUENCE LENGTH: 55 amino acids**

S S E E I K K K K S T T K C Q S G T A E T Y N S W K V K N L  
1 5 10 15 20 25 30  
Q L E P R R V T S Q M N R Q V K D M T A I L S Q S  
35 40 45 50 55

**SEQUENCE ID NO: 386**

**SEQUENCE LENGTH: 26 amino acids**

S S E E I K K K K V Q P N A S Q A Q Q K P T T H G R  
1 5 10 15 20 25

**SEQUENCE ID NO: 387**

**SEQUENCE LENGTH: xx amino acids**

S S E E I K K K V Q P N A S Q A Q Q K P T T H G R  
1 5 10 15 20 25

**SEQUENCE ID NO: 388**

**SEQUENCE LENGTH: 9 amino acids**

N R G W V G A G E

1 5

SEQUENCE ID NO: 389

SEQUENCE LENGTH: 4 amino acids

I E A G

1

SEQUENCE ID NO: 390

SEQUENCE LENGTH: 17 amino acids

V H N Y C N M K N R G W V G A G E

1 5 10 15

SEQUENCE ID NO: 391

SEQUENCE LENGTH: 18 amino acids

V H N Y C N M K K N R G W V G A G E

1 5 10 15

SEQUENCE ID NO: 392

SEQUENCE LENGTH: 13 amino acids

V H N Y C N M K K I E A G

1 5 10

SEQUENCE ID NO: 393

SEQUENCE LENGTH: 12 amino acids

V H N Y C N M K I E A G

1 5 10

SEQUENCE ID NO: 394

SEQUENCE LENGTH: 25 amino acids

Q L R C W N T W A K M F F M V F L I I W Q N T M F

1 5 10 15 20 25

SEQUENCE ID NO: 395

SEQUENCE LENGTH: 33 amino acids

V K K D N H K K Q L R C W N T W A K M F F M V F L I I W Q N

1 5 10 15 20 25 30

T M F

SEQUENCE ID NO: 396

SEQUENCE LENGTH: 34 amino acids

V K K D N H K K K Q L R C W N T W A K M F F M V F L I I W Q  
1 5 10 15 20 25 30  
N T M F

SEQUENCE ID NO: 397

SEQUENCE LENGTH: 11 amino acids

V K K D N H K K K N S  
1 5 10

SEQUENCE ID NO: 398

SEQUENCE LENGTH: 10 amino acids

V K K D N H K K N S  
1 5 10

SEQUENCE ID NO: 399

SEQUENCE LENGTH: 35 amino acids

G A E E S G P F N R Q V Q L K V H A S G M G R H L W N C P A  
1 5 10 15 20 25 30  
F W S E V  
35

SEQUENCE ID NO: 400

SEQUENCE LENGTH: 10 amino acids

H P S P P P E K R S  
1 5 10

SEQUENCE ID NO: 401

SEQUENCE LENGTH: 11 amino acids

H P S P P P E K K R S  
1 5 10

SEQUENCE ID NO: 402

SEQUENCE LENGTH: 44 amino acids

H P S P P P E K K G A E E S G P F N R Q V Q L K V H A S G M  
1 5 10 15 20 25 30  
G R H L W N C P A F W S E V  
35 40

SEQUENCE ID NO: 403

SEQUENCE LENGTH: 43 amino acids

H P S P P P E K G A E E S G P F N R Q V Q L K V H A S G M G  
1 5 10 15 20 25 30  
R H L W N C P A F W S E V  
35 40

SEQUENCE ID NO: 404

SEQUENCE LENGTH: 39 amino acids

M Q V L S K T H M N L F P Q V L L Q M F L R G L K R L L Q D  
1 5 10 15 20 25 30  
L E K S K K R K L  
35

SEQUENCE ID NO: 405

SEQUENCE LENGTH: 8 amino acids

R C K S A R L I  
1 5

SEQUENCE ID NO: 406

SEQUENCE LENGTH: 48 amino acids

V Q T Q P A I K K M Q V L S K T H M N L F P Q V L L Q M F L  
1 5 10 15 20 25 30  
R G L K R L L Q D L E K S K K R K L  
35 40 45

SEQUENCE ID NO: 407

SEQUENCE LENGTH: 49 amino acids

V Q T Q P A I K K K M Q V L S K T H M N L F P Q V L L Q M F  
1 5 10 15 20 25 30  
L R G L K R L L Q D L E K S K K R K L  
35 40 45

SEQUENCE ID NO: 408

SEQUENCE LENGTH: 17 amino acids

V Q T Q P A I K K R C K S A R L I  
1 5 10 15

SEQUENCE ID NO: 409

SEQUENCE LENGTH: 16 amino acids

V Q T Q P A I K R C K S A R L I  
1 5 10 15

SEQUENCE ID NO: 410

SEQUENCE LENGTH: 11 amino acids

A R S G K K Q K R K L  
1 5 10

SEQUENCE ID NO: 411

SEQUENCE LENGTH: 12 amino acids

A R S G K K Q K K R K L  
1 5 10

SEQUENCE ID NO: 412

SEQUENCE LENGTH: 13 amino acids

A R S G K K Q K K E N S F  
1 5 10

SEQUENCE ID NO: 413

SEQUENCE LENGTH: 12 amino acids

A R S G K K Q K E N S F

1 5 10

SEQUENCE ID NO: 414

SEQUENCE LENGTH: 14 amino acids

K A S A R S G K S K K R K L

1 5 10

SEQUENCE ID NO: 415

SEQUENCE LENGTH: 15 amino acids

K A S A R S G K K S K K R K L

1 5 10 15

SEQUENCE ID NO: 416

SEQUENCE LENGTH: 16 amino acids

K A S A R S G K K A K K E N S F

1 5 10 15

SEQUENCE ID NO: 417

SEQUENCE LENGTH: 15 amino acids

K A S A R S G K A K K E N S F

1 5 10 15

SEQUENCE ID NO: 418

SEQUENCE LENGTH: 15 amino acids

H L N K G R R L G D K I R A T

1 5 10 15

SEQUENCE ID NO: 419

SEQUENCE LENGTH: 23 amino acids

V T S G T P F F H L N K G R R L G D K I R A T  
1 5 10 15 20

SEQUENCE ID NO: 420

SEQUENCE LENGTH: 24 amino acids

V T S G T P F F F H L N K G R R L G D K I R A T  
1 5 10 15 20

SEQUENCE ID NO: 421

SEQUENCE LENGTH: 10 amino acids

V T S G T P F F F I  
1 5 10

SEQUENCE ID NO: 422

SEQUENCE LENGTH: 9 amino acids

V T S G T P F F I  
1 5

SEQUENCE ID NO: 423

SEQUENCE LENGTH: 51 amino acids

V T L L Y V N T V T L A P N V N M E S S R N A H S P A T P S  
1 5 10 15 20 25 30  
A K R K D P D L T W G G F V F F F C Q F H  
35 40 45 50

SEQUENCE ID NO: 424

SEQUENCE LENGTH: 60 amino acids

K C R C K P N F F V T L L Y V N T V T L A P N V N M E S S R  
1 5 10 15 20 25 30  
N A H S P A T P S A K R K D P D L T W G G F V F F F C Q F H  
35 40 45 50 65 60

SEQUENCE ID NO: 425

SEQUENCE LENGTH: 61 amino acids

K C R C K P N F F V T L L Y V N T V T L A P N V N M E S S  
1 5 10 15 20 25 30  
R N A H S P A T P S A K R K D P D L T W G G F V F F F C Q F  
35 40 45 50 65 60  
H

SEQUENCE ID NO: 426

SEQUENCE LENGTH: 10 amino acids

K C R C K P N F F L  
1 5 10

SEQUENCE ID NO: 427

SEQUENCE LENGTH: 9 amino acids

K C R C K P N F L  
1 5

SEQUENCE ID NO: 428

SEQUENCE LENGTH: 9 amino acids

S L V R L S S C V  
1 5

SEQUENCE ID NO: 429

SEQUENCE LENGTH: 14 amino acids

L V K K L K E K K M N W I L

1 5 10

SEQUENCE ID NO: 430

SEQUENCE LENGTH: 15 amino acids

L V K K L K E K K K M N W I L

1 5 10 15

SEQUENCE ID NO: 431

SEQUENCE LENGTH: 10 amino acids

L V K K L K E K K R

1 5 10

SEQUENCE ID NO: 432

SEQUENCE LENGTH: 9 amino acids

L V K K L K E K R

1 5

SEQUENCE ID NO: 433

SEQUENCE LENGTH: 9 amino acids

A A I V K D C C R

1 5

SEQUENCE ID NO: 434

SEQUENCE LENGTH: 11 amino acids

S Q P A S I L G R K L

1 5 10

SEQUENCE ID NO: 435

SEQUENCE LENGTH: 12 amino acids

S Q P A S I L G K R K L

1 5 10 15

SEQUENCE ID NO: 436

SEQUENCE LENGTH: 18 amino acids

S Q P A S I L G K A A I V K D C C R  
1 5 10 15

SEQUENCE ID NO: 437

SEQUENCE LENGTH: 17 amino acids

S Q P A S I L G A A I V K D C C R  
1 5 10 15

SEQUENCE ID NO: 438

SEQUENCE LENGTH: 18 amino acids

K S L V R L S S C V P V A L M S A M  
1 5 10 15

SEQUENCE ID NO: 439

SEQUENCE LENGTH: 9 amino acids

R L S S C V P V A  
1 5

SEQUENCE ID NO: 440

SEQUENCE LENGTH: 9 amino acids

V R L S S C V P V  
1 5

SEQUENCE ID NO: 441

SEQUENCE LENGTH: 9 amino acids

L V R L S S C V P  
1 5

SEQUENCE ID NO: 442

SEQUENCE LENGTH: 9 amino acids

S C V P V A L M S  
1 5

SEQUENCE ID NO: 443

SEQUENCE LENGTH: 9 amino acids

S S C V P V A L M

1 5

SEQUENCE ID NO: 444

SEQUENCE LENGTH: 9 amino acids

L S S C V P V A L

1 5

SEQUENCE ID NO: 445

SEQUENCE LENGTH: 9 amino acids

V P V A L M S A M

1 5

SEQUENCE ID NO: 446

SEQUENCE LENGTH: 9 amino acids

C V P V A L M S A

1 5

SEQUENCE ID NO: 447

SEQUENCE LENGTH: 9 amino acids

K K K S L V R L S

1 5

SEQUENCE ID NO: 448

SEQUENCE LENGTH: 9 amino acids

E K K K S L V R L

1 5

SEQUENCE ID NO: 449

SEQUENCE LENGTH: 9 amino acids

K E K K K S L V R

1 5

SEQUENCE ID NO: 450

SEQUENCE LENGTH: 9 amino acids

M K E K K K S L V

1 5

SEQUENCE ID NO: 451

SEQUENCE LENGTH: 9 amino acids

I M K E K K K S L

1 5

SEQUENCE ID NO: 452

SEQUENCE LENGTH: 9 amino acids

K C I M K E K K A

1 5

SEQUENCE ID NO: 453

SEQUENCE LENGTH: 9 amino acids

C I M K E K K A W

1 5

SEQUENCE ID NO: 454

SEQUENCE LENGTH: 9 amino acids

C I M K E K K K A

1 5

SEQUENCE ID NO: 455

SEQUENCE LENGTH: 9 amino acids

I M K E K K K A W

1 5

SEQUENCE ID NO: 456

SEQUENCE LENGTH: 13 amino acids

H P S W P W T R C L R M R

1 5 10

SEQUENCE ID NO: 457

SEQUENCE LENGTH: 14 amino acids

R H P S W P W T R C L R M R

1 5 10

SEQUENCE ID NO: 458

SEQUENCE LENGTH: 16 amino acids

G A S G C V H Q E A E R V S Q A

1 5 10 15

SEQUENCE ID NO: 459

SEQUENCE LENGTH: 20 amino acids

N T W A K M F F M V F L I I W Q N T M F

1 5 10 15 20